

3.6 SOLVE DECIMAL EQUATIONS

0. 1 2 3 ← THOUSANDTHS
 ↑ ↑
 ↑ HUNDRETHS
TENTHS

Ex 1 ROUND TO NEAREST HUNDREDTH

$$\begin{array}{r} 18 - 3y = 5 \\ -18 \quad \quad -18 \\ \hline -3y = -13 \\ \frac{-3}{-3} \quad \frac{-3}{-3} \\ \hline y = 4.33 \end{array}$$

Ex 2 $14r + 8 = 32 + 7r$

$$\begin{array}{r} -7r \quad \quad \quad -7r \\ \hline 7r + 8 = 32 \end{array}$$

$$\begin{array}{r} 7r + 8 = 32 \\ -8 \quad \quad -8 \\ \hline 7r = 24 \\ \frac{7}{7} \quad \frac{7}{7} \end{array}$$

$$r = 3.43$$

Ex 3 $-(d-3) = 2(3d+1)$

$$\begin{array}{r} -d + 3 = 6d + 2 \\ +d \quad \quad +d \\ \hline 3 = 7d + 2 \end{array}$$

$$\begin{array}{r} 3 = 7d + 2 \\ -2 \quad \quad -2 \\ \hline 1 = 7d \end{array}$$

$$\frac{1}{7} = \frac{7d}{7}$$

$$0.14 = d$$

HOMEWORK : p. 169 #20-38 even, 50, 52